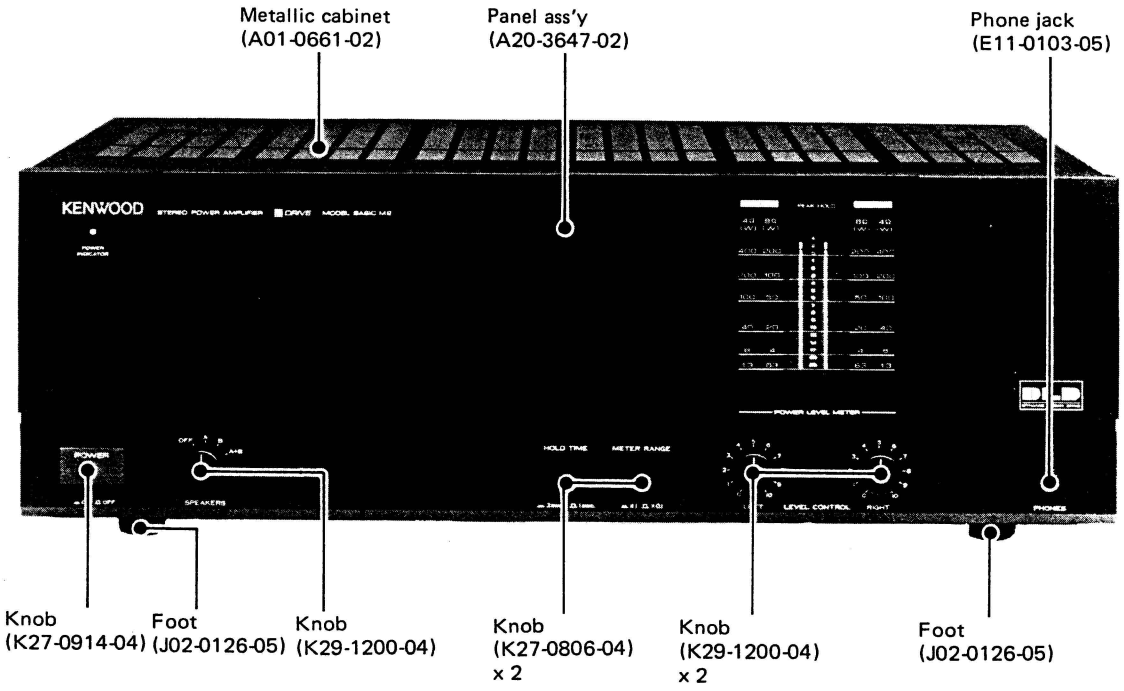
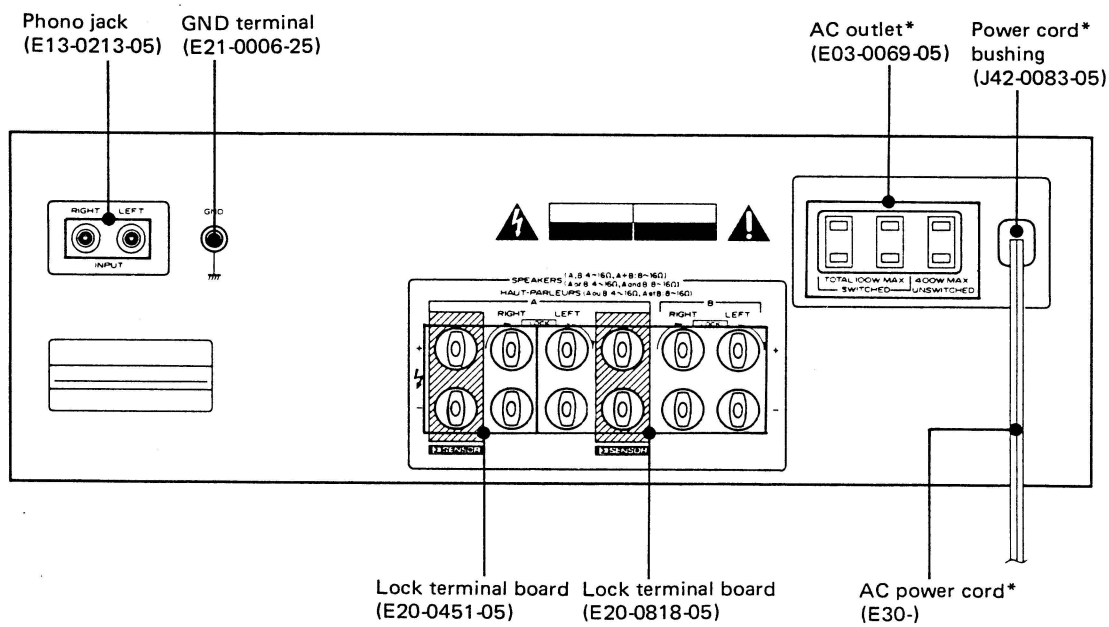
SERVICE MANUAL

KENWOOD **BASIC M2**

STEREO POWER AMPLIFIER





*Refer to parts list on page 9.

ADJUSTMENT

ADJUSTMENT

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as follows: SPEAKER : B							
1	**OFFSET (X07-2030-11)**	–	Connect a DC voltmeter to SPEAKER B terminal.	VOLUME: 0	VR1 (L) VR2 (R)	0V	(a)
2	**IDLE CURRENT (X07-2030-11)**	–	Connect a DC voltmeter across R85 (L) R86 (R)	VOLUME: 0	VR3 (L) VR4 (R)	13 ± 8 mV	(b)
3	**POWER METER (1)**	(A) 1 kHz, 1 V	(B)	METER RANGE : x 1 Adjust LEVEL CONTROL so that AC voltmeter indicates 40 V	VR3	Adjust the variable resistor so that the 200 W (8Ω) FL indicator lights.	
4	**POWER METER (2)**	(A) 1 kHz, 0,1 V	(B)	METER RANGE: x 0.1 Adjust LEVEL CONTROL so that AC voltmeter indicates 4 V	VR1	Adjust the variable resistor so that the 2 W (8Ω) FL indicator lights.	

Power Amplifier Check

After completing power amplifier repairs, be sure to confirm that waveforms are present as indicated below. Power amplifier operation is not normal if these waveforms cannot be observed.

It is not possible to observe both waveform C and D at the same time. Be sure to observe them individually, and be sure that no other test equipment is connected to the amplifier at the same time as the oscilloscope.

Test Condition

1. Apply a 50Hz sine wave to the INPUT terminal.
2. Connect an 8 ohm dummy load to the speaker terminals.
3. Connect the oscilloscope across the resistor (R67~74) of high output circuit.
4. Set the volume control of the BASIC M2 to 0, then turn on the power.
5. When the LEVEL CONTROL of the BASIC M2 is turned up slowly, the waveform shown in Figure C should appear suddenly at a certain point. This is evidence that the high output circuit has begun operating. Stop turning the volume control at the point where this waveform appears.
6. Momentarily turn off the power to the BASIC M2.
7. Connect the oscilloscope across the resistor (R75~82) of low output circuit.
8. Turn the power to the BASIC M2 back on.
9. The waveform shown in Figure D should appear.

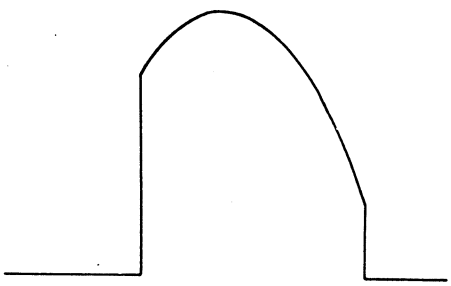


Fig. C

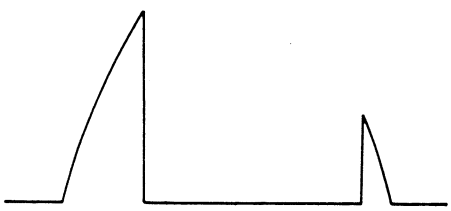


Fig. D

REGLAGE

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SPEAKER: B							
1	**OFFSET (X07-2030-11)**	–	Connecter un voltmètre de CC aux bornes de sortie + et – (SPEAKER B)	VOLUME: 0	VR1 (D) VR2 (G)	0V	(a)
2	**COURANT DE POLARISATION**	–	Connecter un voltmètre de CC sur R85 (D) R86 (G)	VOLUME: 0	VR3 (D) VR4 (G)	13 ± 8 mV	(b)
3	**POWER METRE (1)**	(A) 1 kHz, 1 V	(B)	Régler le LEVEL CONTROL en sorte que le VU-mètre indique x1 lorsque le voltmètre indique 40 V	VR3	Ajuster les résistance variables de façon que l'indicateur 200 W (8Ω) FL s'allume.	
4	**POWER METRE (2)**	(A) 1 kHz, 0,1 V	(B)	Régler le LEVEL CONTROL en sorte que le VU-mètre indique x0.1 lorsque le voltmètre indique 4 V	VR1	Ajuster les résistance variables de façon que l'indicateur 2 W (8Ω) FL s'allume.	

Vérification de l'amplificateur de puissance

Après avoir effectué les réparations de l'amplificateur de puissance, s'assurer que les ondes existent dans les conditions indiquées ci-dessous. Le fonctionnement de l'amplificateur est anormal si ces ondes ne peuvent être observées. **Il est impossible d'observer les deux types d'ondes en même temps. Veiller à les observer séparément et s'assurer qu' aucun autre matériel d'essai est raccordé à l'amplificateur en même temps que l'oscilloscope.**

Conditions d'essai

1. Appliquer une onde sinusoïdale de 50Hz à la borne INPUT.
2. Appliquer une charge "dummy" de 8 ohms aux bornes des enceintes.
3. Connecter l'oscilloscope sur les résistance (R67~74) de les haut circuit de sortie.
4. Placer le réglage de volume du BASIC M2 sur "0", avant de mettre sous tension l'appareil.
5. Lorsque LEVEL CONTROL du BASIC M2 est lentement tourné dans le sens d'une augementation de volume, l'onde indiquée sur la figure C doit sudainement apparaître à un moment donné. Cette onde est la preuve que le haut circuit de sortie a commencé à fonctionner. Arrêter le mouvement de la commande de réglage de volume au moment où l'onde décrite apparaît.
6. Mettre momentanément hors tension le BASIC M2.
7. Connecter l'oscilloscope sur les résistance (R75~82) de les bas circuit de sortie.
8. Mettre de nouveau sous tension le BASIC M2.
9. L'onde indiquée sur la figure D doit apparaître.

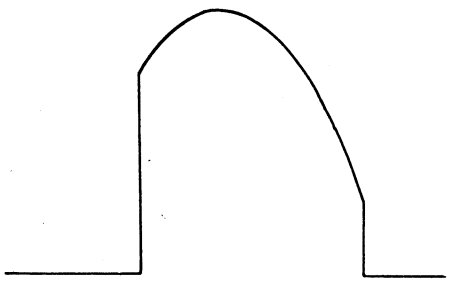


Fig. C

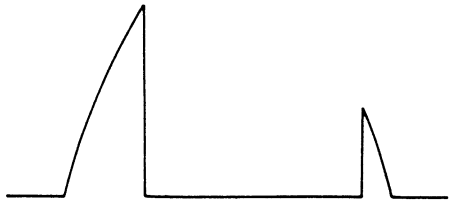


Fig. D

ABGLEICH

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANG-EINSTELLUNG	VORSTÄRKER EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SPEAKER: B							
1	**OFFSET (X07-2030-11)**	–	Einen Gleichspannungs-messer über SPEAKER B anschließen.	VOLUME: 0	VR1 (L) VR2 (R)	0V	(a)
2	**LEERLAUF-STROM**	–	Einen Gleichspannungs-messer über R85 (L) R86 (R) anschließen.	VOLUME: 0	VR3 (L) VR4 (R)	13 ± 8 mV	(b)
3	**LEISTUNGS-MESSER (1)**	(A) 1 kHz, 1 V	(B)	METER RANGE : x 1 Den LEVEL CONT-ROL so regulieren, daß die Wechselspannungs-messer Ablesung 40 V ist.	VR3	Den Regelwiderstand so einstellen, daß der Fluoreszenzindikator 200W (8Ω) aufleuchtet.	
4	**LEISTUNGS-MESSER (2)**	(A) 1 kHz, 0.1 V	(B)	METER RANGE : x 0.1 Den LEVEL CONT-ROL so regulieren, daß die Wechsel-spannungsmesser Ablesung 4 V ist.	VR1	Den Regelwiderstand so einstellen, daß der Fluoreszenzindikator 2 W (8Ω) aufleuchtet.	

Überprüfung des Leistungsverstärkers

Nach Abschluß von Reparaturen am Leistungsverstärker auf jeden Fall überprüfen, ob die Wellenformen wie nachstehend aufgeführt vorhanden sind. Falls diese Wellenformen nicht festzustellen sind, arbeitet der Leistungsverstärker nicht einwandfrei.

Es ist nicht möglich, beide Weelenformen C und D gleichzeitig zu beobachten. Man überprüft beide Wellenformen getrennt voneinander, dabei sicherstellen, daß währenddessen keinen weiteren Testgeräte außer dem Oszilloskop an den Verstärker angeschlossen sind.

Testbedingungen.

1. An die INPUT-Buchse eine 50Hz-Sinuswelle anlegen.
2. Eine 8 ohm-Blindlast an die Lautsprecherklemmen anschließen.
3. Das Oszilloskop über den Widerstände (R67~74) von Hochleistungs-Schaltkreis anschließen.
4. Den Lautstärkestellen des BASIC M2 auf 0, dann die Stromversorgung einschalten.
5. Indem man den LEVEL CONTROL des BASIC M2 langsam höher dreht, sollte eine Wellenform wie in Abbildung C gezeigt plötzlich an einem bestimmten Punkt auftreten. Das ist der Beleg dafür, daß der Hochleistungs-Schaltkreis aktiviert wurde. Sobald diese Wellenform erscheint, hört man an dieser Stelle auf, den Lautstärkesteller weiter zu drehen.
6. Die Stromversorgung des BASIC M2 kurzzeitig aus schalten.
7. Das Oszilloskop über den Widerständ (R75~82) von Niedrigleistungs-Schaltkreis anschließen.
8. Die Stromversorgung des BASIC M2 wieder einschalten.
9. Die in Abbildung D gezeigte Wellenform sollte erscheinen.

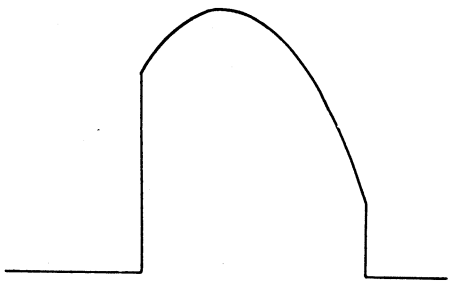


Abb. C

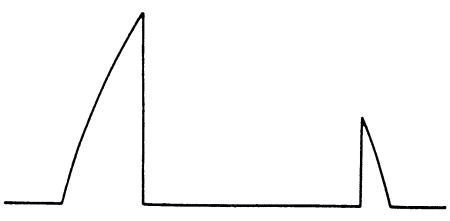
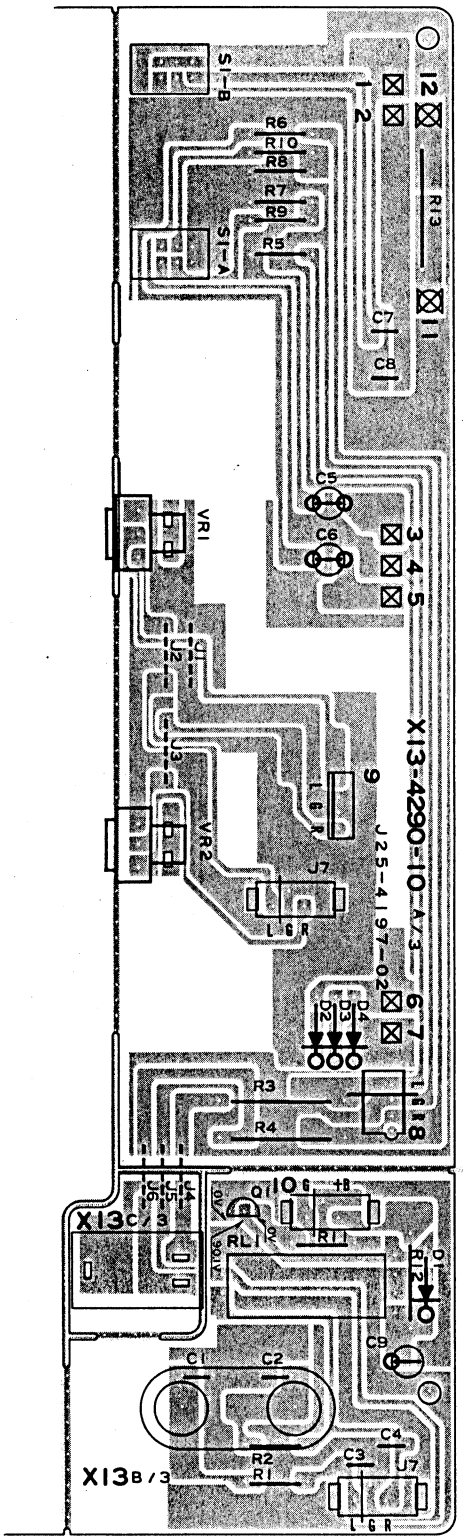


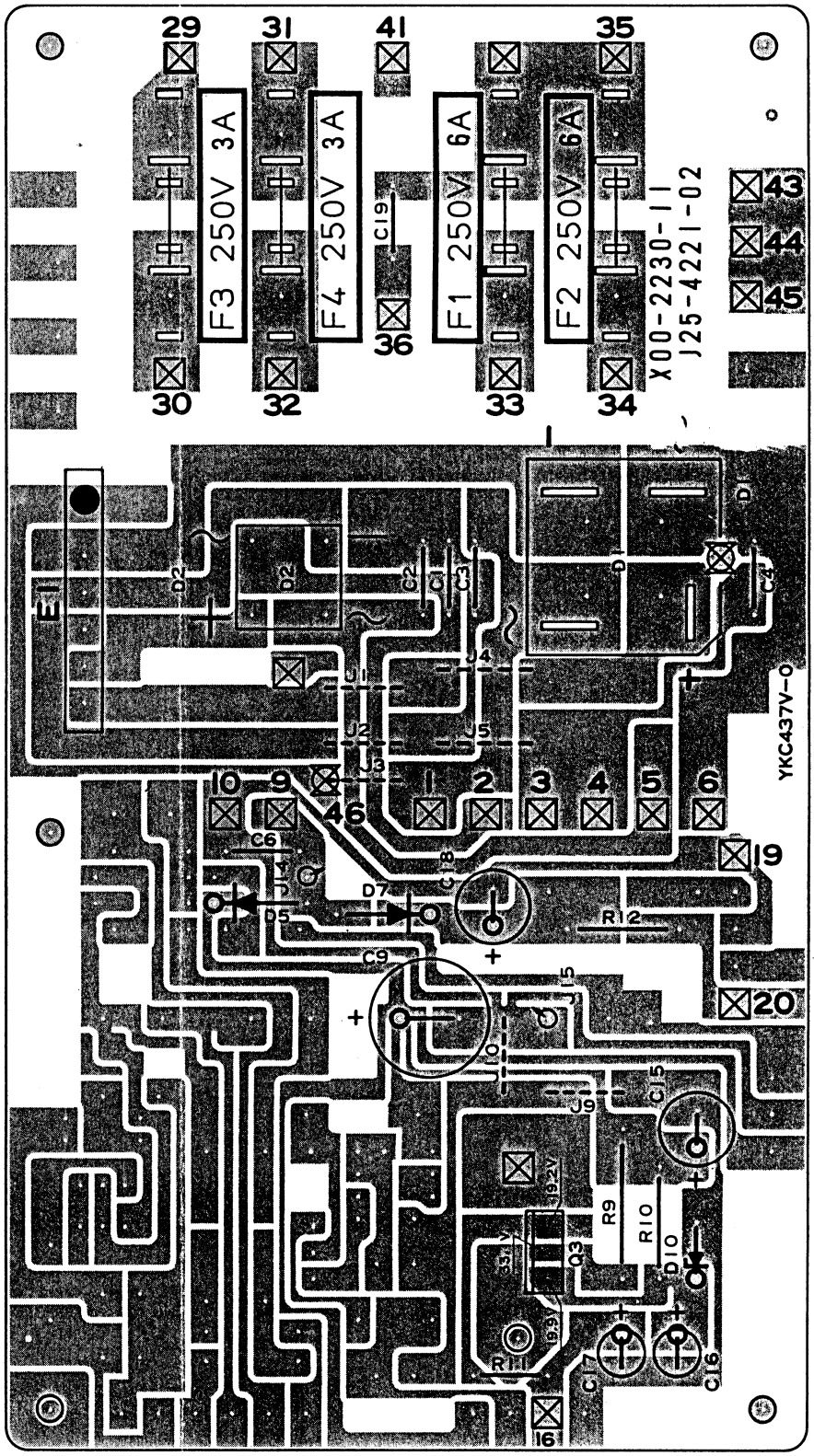
Abb. D

PC BOARD

SUB (X13-4290-10)
Component side view



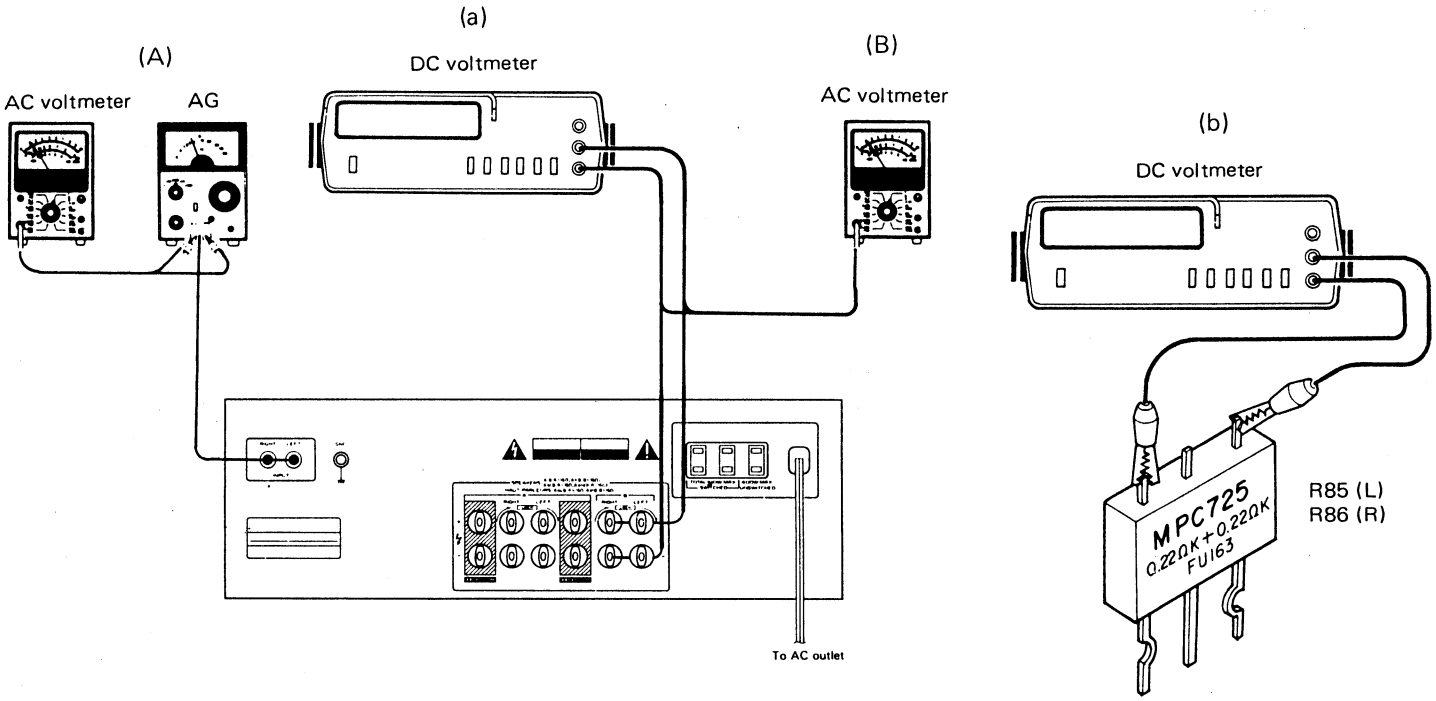
POWER SUPPLY(X00-2230-11) Component side view



Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

TEST INSTRUMENT CONNECTION

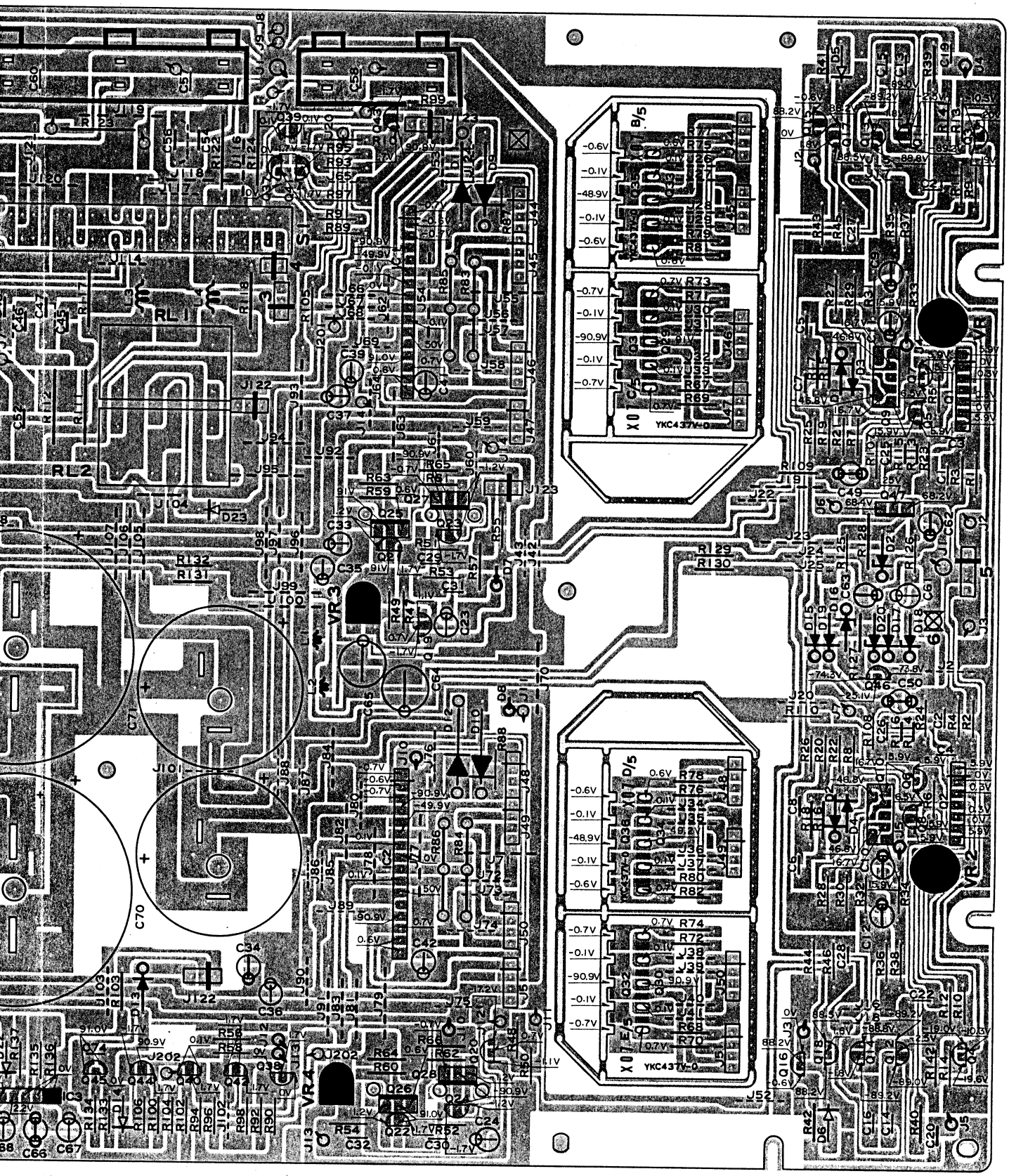
TEST INSTRUMENTS CONNECTION



BASIC M2

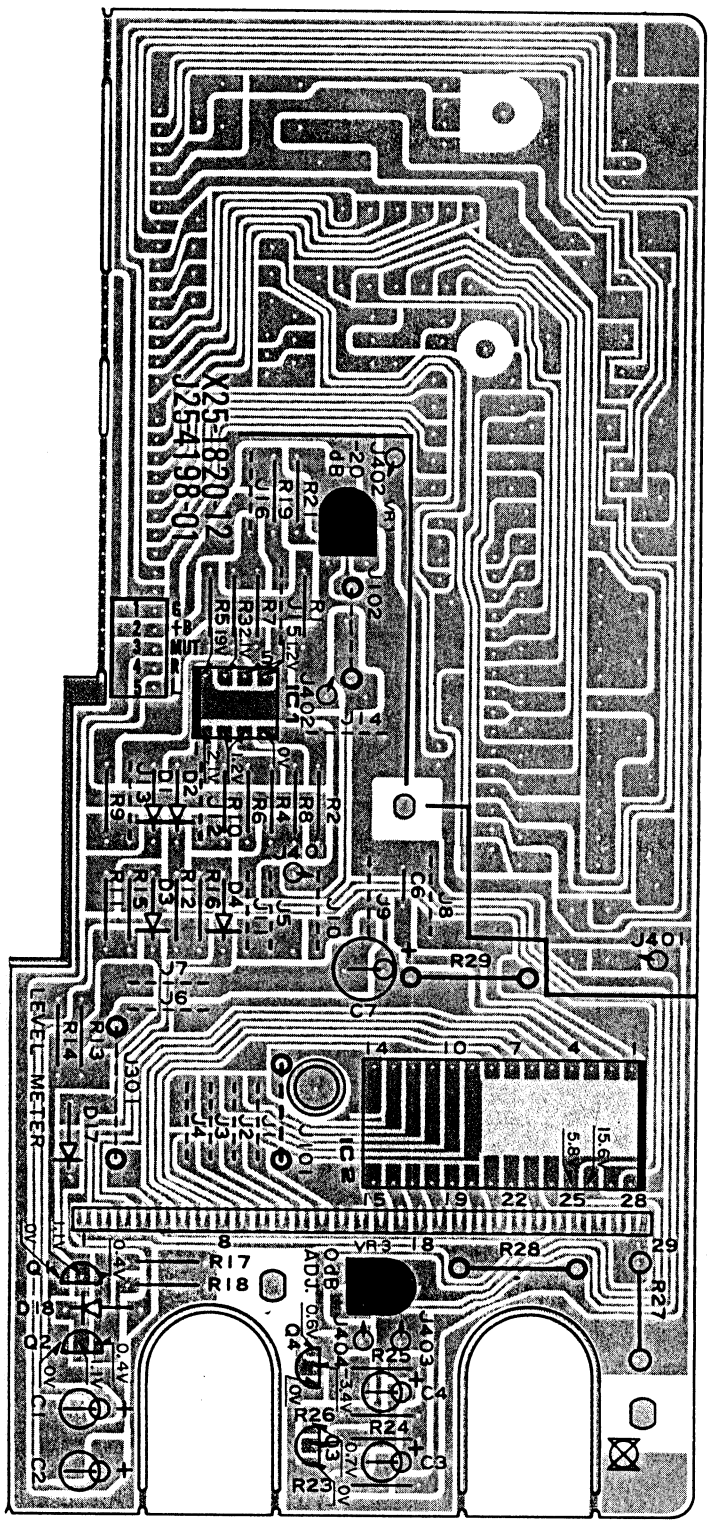
OARD

7-2030-11) Component side view

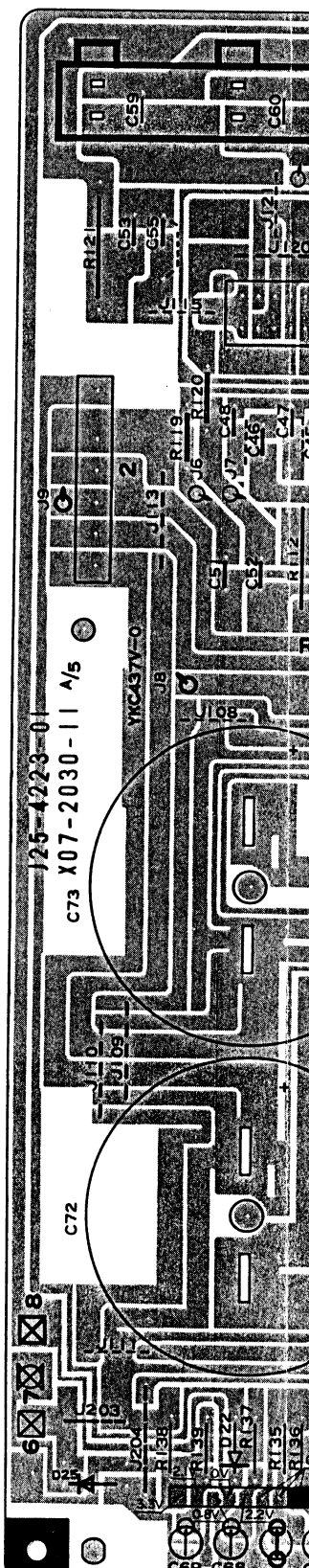


PC BOARD

DISPLAY (X25-1820-12) Component side view



POWER AMP (X07-2030-1



Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

	(X07-2030)
IC1,2	: TA2031
IC3	: μPC1237H
Q1, 2	: μPA 68H(K,L)
Q3~8	: 2SC1845
Q9,10	: μPA 75V(F,E)
Q11~14	: 2SC2071
Q15,16	: 2SC2632(Q,R,S)
Q17,18	: 2SA939
Q19,20	: 2SC1841
Q21,22,43,44	: 2SC2071
Q23,24	: 2SA939
Q25,26	: 2SC2336A(Q,P)
Q27,28	: 2SA1006A(Q,P)
Q29,30,33,34	: DAT152IN
Q31,32,35,36	: DAT152IP
Q37,38	: 2SC2320
Q39~42	: 2SA999
Q45	: 2SA988
Q47	: 2SA957
Q46	: 2SC2590
D1~6, 17	: IS2076
D7,8	: STV-2H
D9~12,27~30	: RU4Z
D13,14,22,23	: IS2076A
D15,16	: RD24JB(B3)
D18	: RD5.6JB(B1)
D19	: E-102
D20	: RD16JB(B2)
D21	: RD22JB(B2)

MAIN AMP (X07-2030-11)

(X13-4290-10)(B/C)

(X13-4290-10)(A/3)

(X13-4290-10)(C/3)

(X25-1820-12)

Q1 : 2SC2631 D1 : IS2076A
D2~4 : IS2076

IC1 : AN6552 or RC4558P
IC2 : AN6870N
D1~4,17,18 : IS2076 or IS1555 or IS2473

Q1~4 : 2SC945(A)(Q,P) or 2SC1685(R,S) or 2SC2320(E,F)

E TYPE

M TYPE

2SA988 2SC1845
2SA999 2SC2320
2SA999 2SC2631
2SC1685 2SC2632
2SC1841 2SC945

2SA939 2SC2071 2SC2590

2SD313V-AL

2SA957 2SA1006B 2SC2368B

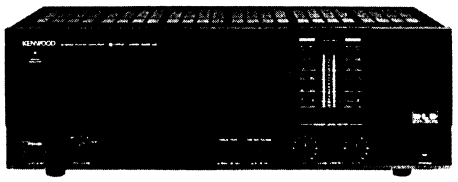
UPA75V

UPA68H

RC4558

ER AMPLIFIER

BASIC M2



SPECIFICATION

Power output

220 watts* per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.004% total harmonic distortion.

Clipping Power	
at 8 ohms	242 W
at 4 ohms	324 W
Clipping Headroom	
at 8 ohms	0 2 dB
at 4 ohms	1.1 dB
Dynamic Power	
at 8 ohms	325 W
at 4 ohms	484 W
Dynamic Headroom	
at 8 ohms	1.5 dB
at 4 ohms	2.9 dB
Total Harmonic Distortion (20 Hz to 20,000 Hz)	
Input to SPEAKER output	0.004% at rated power into 8 ohms 0.004% at 1/2 rated power into 8 ohms 0.001% at rated power into 8 ohms at 1 kHz
Intermodulation Distortion (60 Hz:7 kHz = 4:1)	0.004% at rated power into 8 ohms
Damping Factor	More than 1,000 at 50 Hz, 8 ohms
Transient Response	
Rise Time	1.8μs
Slew Rate	± 100 V/μs
Frequency Response	1 Hz to 200 kHz, +0 dB, −3 dB
Signal-to-Noise Ratio (IHF A Curve)	120 dB
Speaker Impedance	Accept 4 ohms to 16 ohms
Input Sensitivity/Impedance	
INPUT	1 V/47 kohms

General

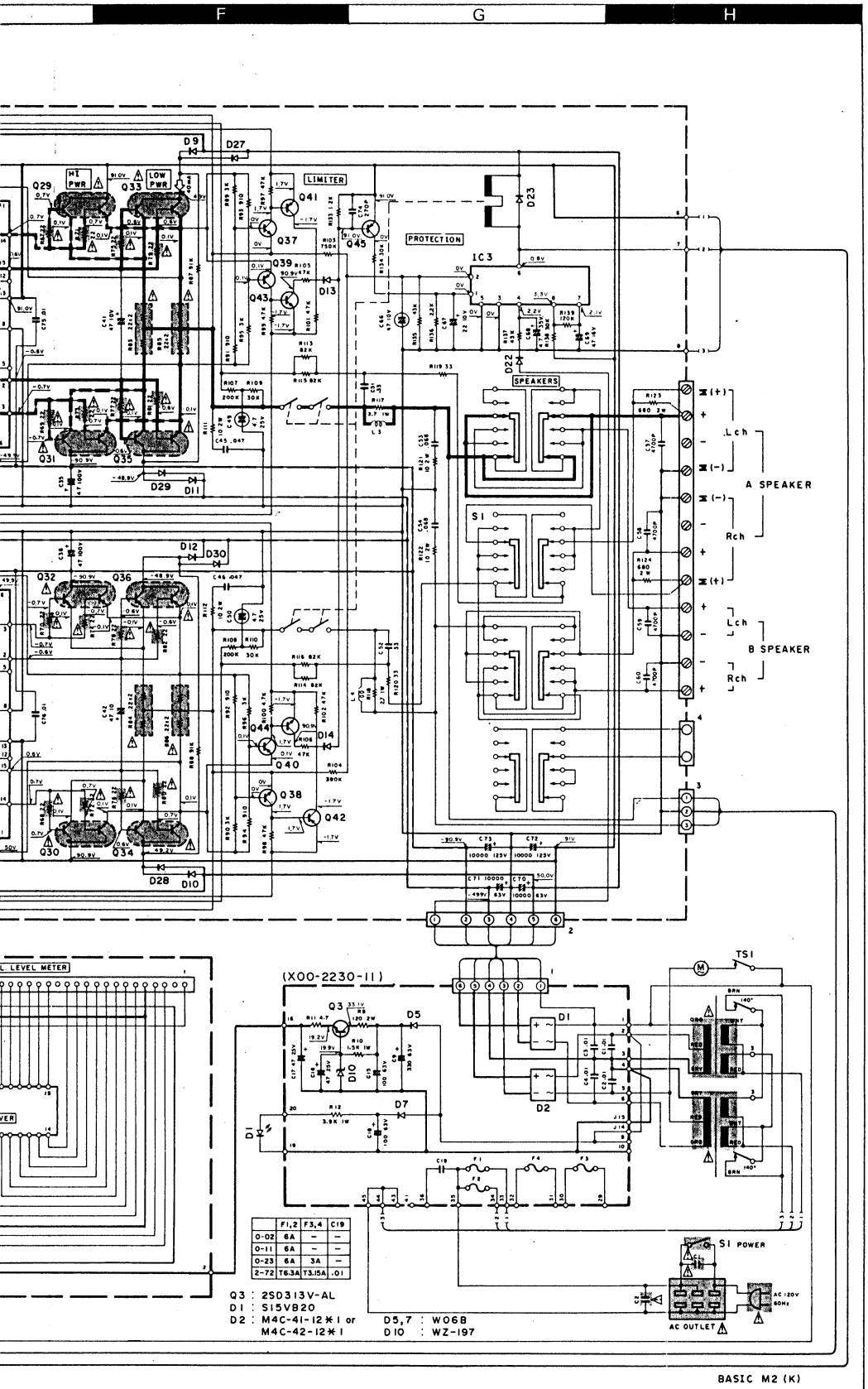
Power Consumption	6.9 A (UL and CSA), 1,350 W (Rated power at 8 ohms)
A.C. Outlets	Switched 2, Unswitched 1
Dimensions	W 440 mm (17-5/16") H 158 mm (6-7/32") D 373 mm (14-11/16")
Net Weight	15.5 kg (34.1 lb)

* Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.



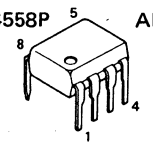
	F1,2	F3,4	C19
0-02	6A	—	—
0-11	6A	—	—
0-23	6A	3A	—
2-72	T6.3A	T3.15A	.01

Q3 : 2SD313V-AL
D1 : S15VB20
D2 : M4C-41-12*1 or M4C-42-12*1
D5,7 : W06B
D10 : WZ-197

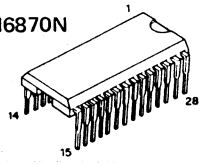
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

- DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

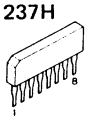
RC4558P



AN6870N

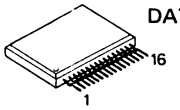


UPC1237H

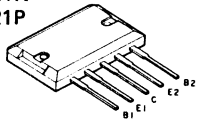


AN6552

TA2031



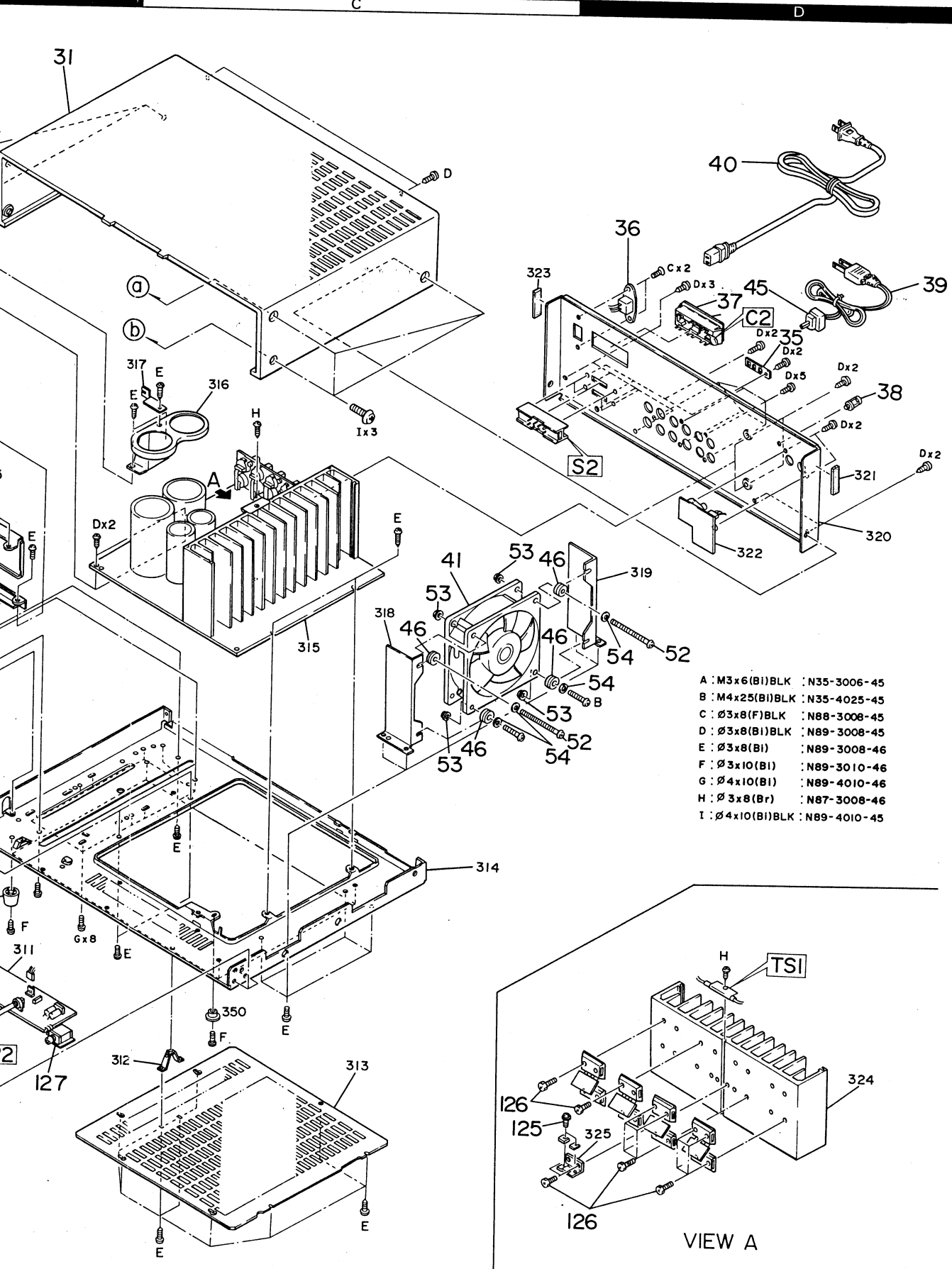
DAT1521N
DAT1521P



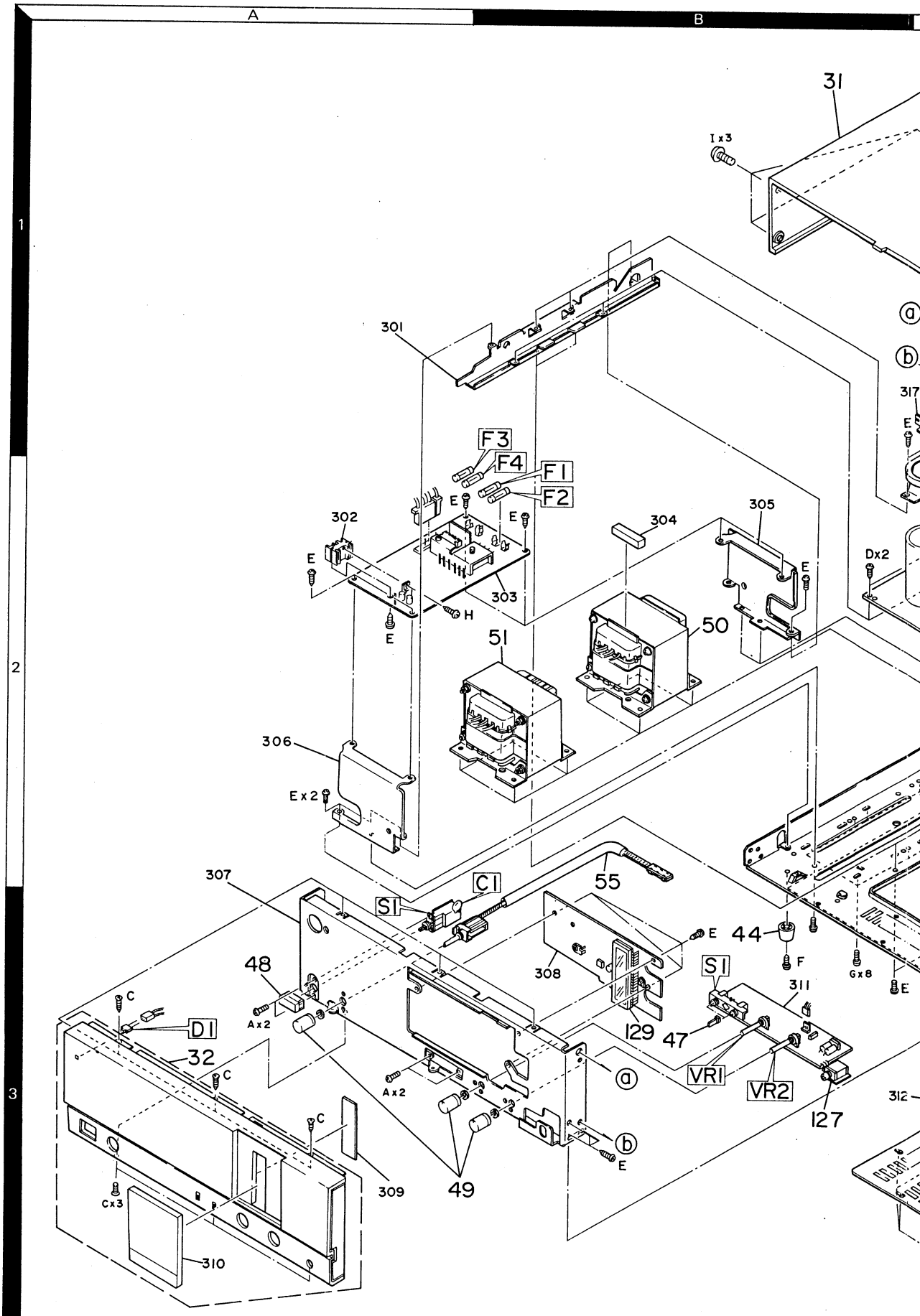
C M2 BASIC M2

EXPLODED VIEW

Exploded No. lager than 500 are not supplied.



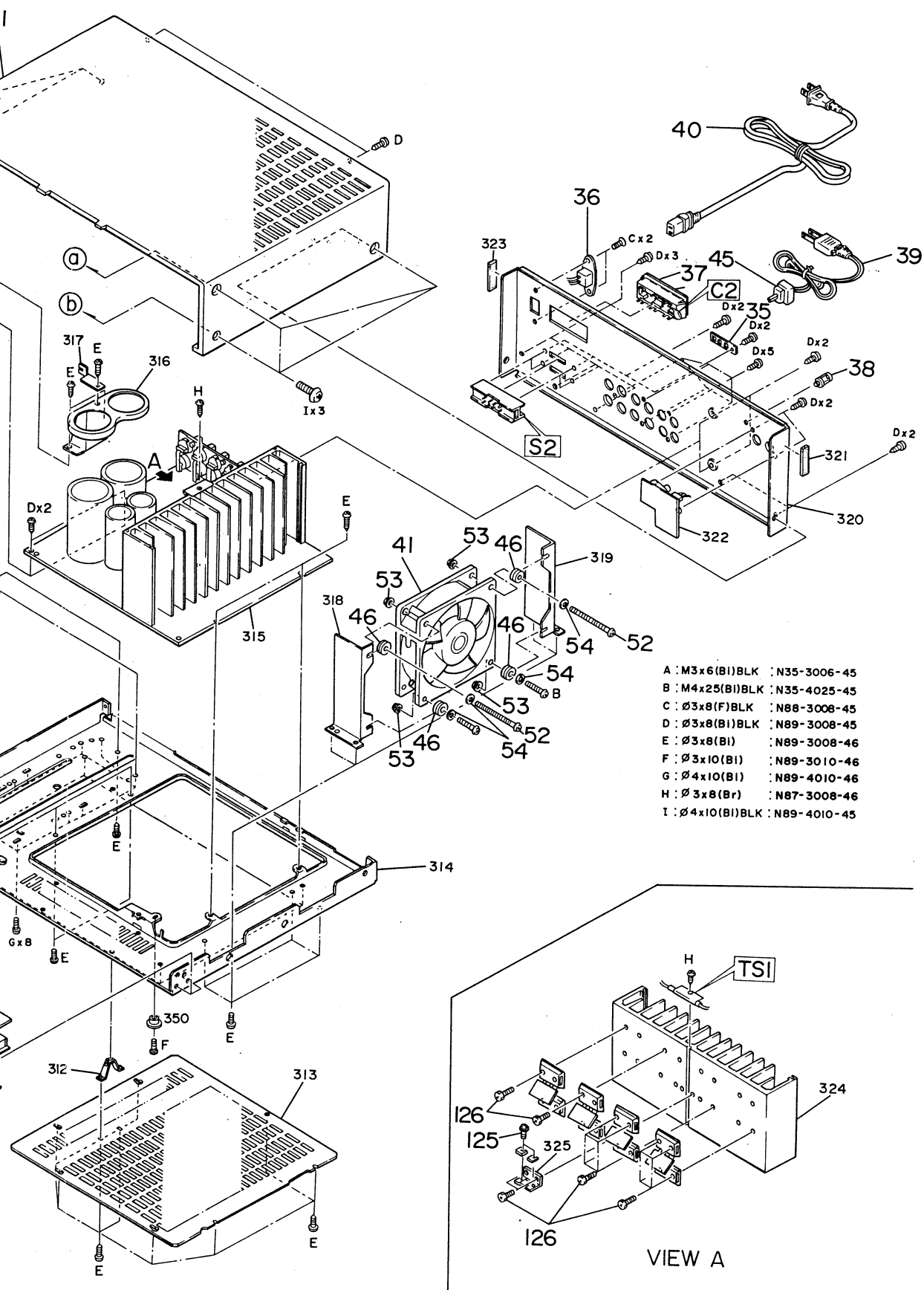
EXPLODED V


A
B
1
2
3
31
I x3
301
317
E
F3
F4
F1
F2
302
E
303
H
304
305
Dx2
50
51
306
E x2
307
C1
55
S1
44
F
G x8
308
48
A x2
C
D1
32
129
47
S1
311
VR1
VR2
127
312
309
49
C x3
310

BASIC M2

DDED VIEW

Exploded No. lager than 500 are not supplied.



A : M3x6(BI)BLK : N35-3006-45
B : M4x25(BI)BLK : N35-4025-45
C : Ø3x8(F)BLK : N88-3008-45
D : Ø3x8(BI)BLK : N89-3008-45
E : Ø3x8(BI) : N89-3008-46
F : Ø3x10(BI) : N89-3010-46
G : Ø4x10(BI) : N89-4010-46
H : Ø3x8(Br) : N87-3008-46
I : Ø4x10(BI)BLK : N89-4010-45

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
SUB (X13-4290-10)						
C1 ,2			CC45FSL1H101J	CERAMIC 100PF J		
C3 ,4			CC45FSL1H151J	CERAMIC 150PF J		
C5 ,6			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C7		*	CF92FV1H224J	MF 0.22UF J		
C8		*	CF92FV1H104J	MF 0.10UF J		
C10			CE04FW2A0R1M	ELECTRO 0.1UF 100WV		
127	3B		E11-0103-05	PHONE JACK (PHONES)		
-			E13-0213-05	PHONO JACK (INPUT)		
R3 ,4			RS14GB3D561J	FL-PROOF RS 560 J 3D		
R12			RS14GB3A562J	FL-PROOF RS 5.6K J 3A		
VR1 ,2		*	R05-4002-05	POTENTIOMETER(50K) OUTPUT		
RL1			S51-2061-05	REED RELAY		
S1		*	S42-2102-05	MULTIPLE PUSH SWITCH		
D1			1S2076A	DIODE		
D2 -4			1S2076	DIODE		
Q1			2SC2631	TRANSISTOR		
DISPLAY (X25-1820-12)						
C6			CQ92FM1H473J	MYLAR 0.047UF J		
R27		*	RD14GB2H360J	FL-PROOF RD 36 J 2H		
R28			RS14GB3A181J	FL-PROOF RS 180 J 3A		
R29			RS14GB3A151J	FL-PROOF RS 150 J 3A		
VR1			R12-1312-05	TRIMMING POT. (1K) -20 DB ADJ		
VR3			R12-3312-05	TRIMMING POT. (10K) 0 DB ADJ		
129		*	FIP18BW11Y	FLUORESCENT INDICATOR TUBE		
D1 -4			1S1555	DIODE		
D1 -4			1S2076	DIODE		
D1 -4			1S2473	DIODE		
D17 ,18			1S1555	DIODE		
D17 ,18			1S2076	DIODE		
D17 ,18			1S2473	DIODE		
IC1			AN6552	IC		
IC1			RC4558P	IC		
IC2			AN6870N	IC FL DRIVER		
Q1 -4			2SC1685(R,S)	TRANSISTOR		
Q1 -4			2SC2320(E,F)	TRANSISTOR		
Q1 -4			2SC945(A)(Q,P)	TRANSISTOR		

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R113-116		*	RN92BC2E823F	RN 82K F 2E		
R117,118			RS14GB3A2R7J	FL-PROOF RS 2.7 J 3A		
R119,120			RD14GB2E330J	FL-PROOF RD 33 J 2E		
R121,122			RS14GB3D100J	FL-PROOF RS 10 J 3D		
R123,124			RS14GB3D681J	FL-PROOF RS 680 J 3D		
R127		*	RD14GB2E152J	FL-PROOF RD 1.5K J 2E		
R128			RS14GB3A122J	FL-PROOF RS 1.2K J 3A		
R129-132			RD14GB2E4R7J	FL-PROOF RD 4.7 J 2E		
VR1 ,2			R12-0502-05	TRIMMING POT. (100) OFFSET		
VR3 ,4			R12-0302-05	TRIMMING POT. (500) IDLING		
RL1 ,2			S51-2045-05	MAGNETIC RELAY		
S1		*	S90-0068-05	SLIDE SWITCH SPEAKER		
TS1		*	S59-1064-05	THERMAL SWITCH (90°C)		
D1 ,2			1S2076	DIODE		
D3 -6			1S2076	DIODE		
D7 ,8		*	STV-2H	VARISTOR		
D9 -12		*	RU4Z	DIODE		
D13 ,14			1S2076A	DIODE		
D15 ,16		*	RD24J(B2,B3)	ZENER DIODE		
D17			1S2076	DIODE		
D18		*	RD5.6J(B1)	ZENER DIODE		
D19			E-102	CONSTANT CURRENT DIODE		
D20		*	RD16J(B2)	ZENER DIODE		
D21			RD22J(B2)	ZENER DIODE		
D22 ,23			1S2076A	DIODE		
D27 -30		*	RU4Z	DIODE		
IC1 ,2		*	TA2031	IC SWITCHING		
IC3			UPC1237H	IC PROTECTION		
Q1 ,2			UPA68H(K,L)	DUAL FET		
Q3 -8			2SC1845	TRANSISTOR		
Q9 ,10			UPA75V(F,E)	DUAL TRANSISTOR		
Q11 -14			2SC2071	TRANSISTOR		
Q15 ,16		*	2SC2632(Q,R)	TRANSISTOR		
Q17 ,18			2SA939	TRANSISTOR		
Q19 ,20			2SC1841	TRANSISTOR		
Q21 ,22			2SC2071	TRANSISTOR		
Q23 ,24			2SA939	TRANSISTOR		
Q25 ,26		*	2SC2336B(Q,P)	TRANSISTOR		
Q27 ,28		*	2SA1006B(Q,P)	TRANSISTOR		
Q29 ,30		*	DAT1521N(O)	TRANSISTOR		
Q29 ,30		*	DAT1521N(Y)	TRANSISTOR		
Q31 ,32		*	DAT1521P(O)	TRANSISTOR		
Q31 ,32		*	DAT1521P(Y)	TRANSISTOR		
Q33 ,34		*	DAT1521N(O)	TRANSISTOR		
Q33 ,34		*	DAT1521N(Y)	TRANSISTOR		
Q35 ,36		*	DAT1521P(O)	TRANSISTOR		
Q35 ,36		*	DAT1521P(Y)	TRANSISTOR		
Q37 ,38			2SC2320(E,F)	TRANSISTOR		
Q39			2SA999	TRANSISTOR		
Q40 -42			2SA999(E,F)	TRANSISTOR		
Q43 ,44			2SC2071	TRANSISTOR		
Q45			2SA988	TRANSISTOR		
Q46			2SC2590	TRANSISTOR		
Q47			2SA957	TRANSISTOR		

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SUB (X13-4290-10)						
C1 ,2			CC45FSL1H101J	CERAMIC 100PF J		
C3 ,4			CC45FSL1H151J	CERAMIC 150PF J		
C5 ,6			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C7		*	CF92FV1H224J	MF 0.22UF J		
C8		*	CF92FV1H104J	MF 0.10UF J		
C10			CE04FW2A0R1M	ELECTRO 0.1UF 100WV		
127	3B		E11-0103-05	PHONE JACK (PHONES)		
-			E13-0213-05	PHONO JACK (INPUT)		
R3 ,4			RS14GB3D561J	FL-PROOF RS 560 J 3D		
R12			RS14GB3A562J	FL-PROOF RS 5.6K J 3A		
VR1 ,2		*	R05-4002-05	POTENTIOMETER(50K) OUTPUT		
RL1			S51-2061-05	REED RELAY		
S1		*	S42-2102-05	MULTIPLE PUSH SWITCH		
D1			1S2076A	DIODE		
D2 -4			1S2076	DIODE		
Q1			2SC2631	TRANSISTOR		
DISPLAY (X25-1820-12)						
C6			CQ92FM1H473J	MYLAR 0.047UF J		
R27		*	RD14GB2H360J	FL-PROOF RD 36 J 2H		
R28			RS14GB3A181J	FL-PROOF RS 180 J 3A		
R29			RS14GB3A151J	FL-PROOF RS 150 J 3A		
VR1			R12-1312-05	TRIMMING POT. (1K) -20 DB ADJ		
VR3			R12-3312-05	TRIMMING POT. (10K) 0 DB ADJ		
129		*	FIP18BW11Y	FLUORESCENT INDICATOR TUBE		
D1 -4			1S1555	DIODE		
D1 -4			1S2076	DIODE		
D1 -4			1S2473	DIODE		
D17 ,18			1S1555	DIODE		
D17 ,18			1S2076	DIODE		
D17 ,18			1S2473	DIODE		
IC1			AN6552	IC		
IC1			RC4558P	IC		
IC2			AN6870N	IC FL DRIVER		
Q1 -4			2SC1685(R,S)	TRANSISTOR		
Q1 -4			2SC2320(E,F)	TRANSISTOR		
Q1 -4			2SC945(A)(Q,P)	TRANSISTOR		

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R113-116		*	RN92BC2E823F	RN 82K F 2E		
R117,118			RS14GB3A2R7J	FL-PROOF RS 2.7 J 3A		
R119,120			RD14GB2E330J	FL-PROOF RD 33 J 2E		
R121,122			RS14GB3D100J	FL-PROOF RS 10 J 3D		
R123,124			RS14GB3D681J	FL-PROOF RS 680 J 3D		
R127		*	RD14GB2E152J	FL-PROOF RD 1.5K J 2E		
R128			RS14GB3A122J	FL-PROOF RS 1.2K J 3A		
R129-132			RD14GB2E4R7J	FL-PROOF RD 4.7 J 2E		
VR1 ,2			R12-0502-05	TRIMMING POT. (100) OFFSET		
VR3 ,4			R12-0302-05	TRIMMING POT. (500) IDLING		
RL1 ,2			S51-2045-05	MAGNETIC RELAY		
S1		*	S90-0068-05	SLIDE SWITCH SPEAKER		
TS1		*	S59-1064-05	THERMAL SWITCH (90°C)		
D1 ,2			1S2076	DIODE		
D3 -6			1S2076	DIODE		
D7 ,8		*	STV-2H	VARISTOR		
D9 -12		*	RU4Z	DIODE		
D13 ,14			1S2076A	DIODE		
D15 ,16		*	RD24J(B2,B3)	ZENER DIODE		
D17			1S2076	DIODE		
D18		*	RD5.6J(B1)	ZENER DIODE		
D19			E-102	CONSTANT CURRENT DIODE		
D20		*	RD16J(B2)	ZENER DIODE		
D21			RD22J(B2)	ZENER DIODE		
D22 ,23			1S2076A	DIODE		
D27 -30		*	RU4Z	DIODE		
IC1 ,2		*	TA2031	IC SWITCHING		
IC3			UPC1237H	IC PROTECTION		
Q1 ,2			UPA68H(K,L)	DUAL FET		
Q3 -8			2SC1845	TRANSISTOR		
Q9 ,10			UPA75V(F,E)	DUAL TRANSISTOR		
Q11 -14			2SC2071	TRANSISTOR		
Q15 ,16		*	2SC2632(Q,R)	TRANSISTOR		
Q17 ,18			2SA939	TRANSISTOR		
Q19 ,20			2SC1841	TRANSISTOR		
Q21 ,22			2SC2071	TRANSISTOR		
Q23 ,24			2SA939	TRANSISTOR		
Q25 ,26		*	2SC2336B(Q,P)	TRANSISTOR		
Q27 ,28		*	2SA1006B(Q,P)	TRANSISTOR		
Q29 ,30		*	DAT1521N(O)	TRANSISTOR		
Q29 ,30		*	DAT1521N(Y)	TRANSISTOR		
Q31 ,32		*	DAT1521P(O)	TRANSISTOR		
Q31 ,32		*	DAT1521P(Y)	TRANSISTOR		
Q33 ,34		*	DAT1521N(O)	TRANSISTOR		
Q33 ,34		*	DAT1521N(Y)	TRANSISTOR		
Q35 ,36		*	DAT1521P(O)	TRANSISTOR		
Q35 ,36		*	DAT1521P(Y)	TRANSISTOR		
Q37 ,38			2SC2320(E,F)	TRANSISTOR		
Q39			2SA999	TRANSISTOR		
Q40 -42			2SA999(E,F)	TRANSISTOR		
Q43 ,44			2SC2071	TRANSISTOR		
Q45			2SA988	TRANSISTOR		
Q46			2SC2590	TRANSISTOR		
Q47			2SA957	TRANSISTOR		

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SUB (X13-4290-10)						
C1 ,2			CC45FSL1H101J	CERAMIC 100PF J		
C3 ,4			CC45FSL1H151J	CERAMIC 150PF J		
C5 ,6			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C7		*	CF92FV1H224J	MF 0.22UF J		
C8		*	CF92FV1H104J	MF 0.10UF J		
C10			CE04FW2A0R1M	ELECTRO 0.1UF 100WV		
J27	3B		E11-0103-05	PHONE JACK (PHONES)		
-			E13-0213-05	PHONO JACK (INPUT)		
R3 ,4			RS14GB3D561J	FL-PROOF RS 560 J 3D		
R12			RS14GB3A562J	FL-PROOF RS 5.6K J 3A		
VR1 ,2		*	R05-4002-05	POTENTIOMETER(50K) OUTPUT		
RL1			S51-2061-05	REED RELAY		
S1		*	S42-2102-05	MULTIPLE PUSH SWITCH		
D1			1S2076A	DIODE		
D2 -4			1S2076	DIODE		
Q1			2SC2631	TRANSISTOR		
DISPLAY (X25-1820-12)						
C6			CQ92FM1H473J	MYLAR 0.047UF J		
R27		*	RD14GB2H360J	FL-PROOF RD 36 J 2H		
R28			RS14GB3A181J	FL-PROOF RS 180 J 3A		
R29			RS14GB3A151J	FL-PROOF RS 150 J 3A		
VR1			R12-1312-05	TRIMMING POT. (1K) -20 DB ADJ		
VR3			R12-3312-05	TRIMMING POT. (10K) 0 DB ADJ		
I29		*	FIP18BW11Y	FLUORESCENT INDICATOR TUBE		
D1 -4			1S1555	DIODE		
D1 -4			1S2076	DIODE		
D1 -4			1S2473	DIODE		
D17 ,18			1S1555	DIODE		
D17 ,18			1S2076	DIODE		
D17 ,18			1S2473	DIODE		
IC1			AN6552	IC		
IC1			RC4558P	IC		
IC2			AN6870N	IC FL DRIVER		
Q1 -4			2SC1685(R,S)	TRANSISTOR		
Q1 -4			2SC2320(E,F)	TRANSISTOR		
Q1 -4			2SC945(A)(Q,P)	TRANSISTOR		

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				BASIC M2			
	31	1B	*	A01-0661-02	METALLIC CABINET		
	32	3A	*	A20-3647-02	PANEL ASSY		
	-			B46-0092-03	WARRANTY CARD	K	
	-			B46-0094-03	WARRANTY CARD	UUE	
	-			B46-0095-03	WARRANTY CARD	UUE	
	-			B46-0098-03	WARRANTY CARD	E	
	-		*	B50-4852-00	INSTRUCTION MANUAL (ENGLISH)	KMUUE	
	-		*	B50-4853-00	INSTRUCTION MANUAL (FRENCH)	ME	
	-		*	B50-4854-00	INSTRUCTION MANUAL (SPANISH)	M	
	-		*	B50-4855-00	INSTRUCTION MANUAL (4-LINGUAL)	E	
	-			B59-0092-00	SERVICE DIRECTORY	UUE	
	D1			B30-0258-05	LED(SR538W) POWER		
⚠	C1 ,2	1D,2B		C91-0023-05	CERAMIC 0.01UF AC250V	MUUE	
⚠	C1 ,2	1D,2B		C91-0079-05	CERAMIC 0.01UF AC125V	KE	
	35	1D		D32-0082-04	SWITCH STOPPER	MUUEE	
⚠	36	1D		E03-0058-05	AC INLET	MUUEE	
⚠	37	1D		E03-0069-05	AC OUTLET	KMUUE	
	38	1D		E21-0006-25	GND TERMINAL		
⚠	39	1D		E30-0290-05	AC POWER CORD	K	
⚠	40	1D		E30-0726-05	AC POWER CORD (INLET)	E	
⚠	40	1D		E30-0852-05	AC POWER CORD (INLET)	MUUE	
	41	2C	*	F09-0053-05	FAN		
	-		*	H01-4843-04	ITEM CARTON CASE		
	-		*	H10-1631-12	POLYSTYRENE FOAMED FIXTURE		
	-			H10-1632-02	POLYSTYRENE FOAMED FIXTURE		
	-			H20-0453-04	PROTECTION COVER		
	-			H25-0078-04	PROTECTION BAG (235X315)		
	-			H25-0204-04	PROTECTION BAG (100X315)		
	44	3B		J02-0126-05	FOOT		
⚠	45	1D		J42-0083-05	POWER CORD BUSHING	K	
	46	2C	*	J42-0109-05	BUSHING (CUSHION FOR FAN)		
	47	3B		K27-0806-04	KNOB(BUTTON) M RANGE,HOLD TIME		
	48	3A		K27-0914-04	KNOB(BUTTON) POWER		
	49	3B		K29-1200-04	KNOB SPEAKER,OUTPUT		
⚠	50	2B	*	L01-3271-05	POWER TRANSFORMER	K	
⚠	50	2B	*	L01-3276-05	POWER TRANSFORMER	MUUEE	
⚠	51	2B	*	L01-3281-05	POWER TRANSFORMER	K	
⚠	51	2B	*	L01-3286-05	POWER TRANSFORMER	MUUEE	
	52	2D	*	N09-1292-05	MACHINE SCREW (FOR FAN)		
	53	2C	*	N14-0115-05	NUT (FOR FAN)		
	54	2C	*	N19-0289-04	WASHER (FOR FAN)		
	55	2B	*	S90-0073-05	REMOTE SWITCH (SHAFT)		
⚠	S1	2A		S40-1014-05	PUSH SWITCH (POWER)	KMUUE	
⚠	S1	2A		S40-1047-05	PUSH SWITCH (POWER)	E	
⚠	S2	1C		S31-2046-05	SLIDE SWITCH (VOLTAGE SEL)	MUUEE	
				POWER SUPPLY (X00-2230-11)			
	C1 -4			C91-0023-05	CERAMIC 0.01UF AC250V		
⚠	C19			C91-0079-05	CERAMIC 0.01UF AC125V	E	

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⚠ F1 ,2			F05-6021-05	FUSE 250V 6A	MUUE	
⚠ F1 ,2			F05-6027-05	FUSE (UL) 250V 6A	K	
⚠ F1 ,2			F05-6321-05	FUSE (SEMKO) 250V T6.3A	E	
⚠ F3 ,4			F05-3022-05	FUSE 250V 3A	MUUE	
⚠ F3 ,4			F05-3121-05	FUSE (SEMKO) 250V T3.15A	E	
-			J13-0041-05	FUSE CLIP	KMUUE	
-			J13-0054-05	FUSE CLIP	E	
R9			RS14GB3F121J	FL-PROOF RS 120 J 3F		
R10			RS14GB3A332J	FL-PROOF RS 3.3K J 3A		
R11			RD14GB2E4R7J	FL-PROOF RD 4.7 J 2E		
R12			RS14GB3A392J	FL-PROOF RS 3.9K J 3A		
D1		*	S15VB20	DIODE		
D2		*	D5FB20	DIODE		
D5			W06B	DIODE		
D7			W06B	DIODE		
D10		*	RD20E(B3)	ZENER DIODE		
Q3			2SD313V-AL	TRANSISTOR		
POWER AMP (X07-2030-11)						
C1 ,2			CC45FSL1H101J	CERAMIC 100PF J		
C3 ,4			CC45FSL1H470J	CERAMIC 47PF J		
C7 ,8			CK45FB1H102K	CERAMIC 0.001UF K		
C13 ,14		*	CK45B2H471K	CERAMIC 470PF K		
C15 ,16			CC45SL2H270J	CERAMIC 27PF J		
C19			CC45FSL1H151J	CERAMIC 150PF J		
C20			CC45FSL1H151J	CERAMIC 150PF J		
C21 ,22			CC45FSL1H010C	CERAMIC 1.0PF C		
C25 ,26		*	CC45SL2H150J	CERAMIC 15PF J		
C29 -32			CK45FB1H561K	CERAMIC 560PF K		
C45 ,46			CQ93FM1H473J	MYLAR 0.047UF J		
C49 ,50		*	CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
C51 ,52		*	CQ93FM1H334J	MYLAR 0.33UF J		
C53 ,54			CQ93FM1H333J	MYLAR 0.033UF J		
C57 -60			CK45FB1H472K	CERAMIC 4700PF K		
C66		*	CE04HW1A470M	NP-ELEC 47UF 10WV		
C69		*	CE04GW1C470M	LL-ELEC 47UF 16WV		
C74			CC45FSL1H271J	CERAMIC 270PF J		
C75 ,76			CK45E2H103P	CERAMIC 0.01UF P		
-			E20-0451-05	LOCK TERMINAL BOARD(SPEAKER)4P		
-			E20-0818-05	LOCK TERMINAL BOARD(SPEAKER)8P		
L1 ,2			L33-0275-05	CHOKE COIL		
L3 ,4			L39-0081-05	PHASE-COMPENSATION COIL		
125			N09-0287-05	SEMS (TAPTITE SCREW)		
126			N09-1202-05	TAPPING SCREW		
R39 ,40			RD14GB2E221J	FL-PROOF RD 220 J 2E		
R41 ,42			RD14GB2E561J	FL-PROOF RD 560 J 2E		
R43 -46			RD14GB2E681J	FL-PROOF RD 680 J 2E		
R51 -54			RD14GB2E331J	FL-PROOF RD 330 J 2E		
R59 -62			RD14GB2E561J	FL-PROOF RD 560 J 2E		
R63 -66			RD14GB2E151J	FL-PROOF RD 150 J 2E		
R67 -82			RD14GB2E220J	FL-PROOF RD 22 J 2E		
R83 -86			R90-0187-05	MULTI-COMP 0.22X2 K 3H		
R111,112			RS14GB3D100J	FL-PROOF RS 10 J 3D		

E: Scandinavia & Europe H:Audio Club K: USA P: Canada
S: South Africa T: England U: PX(Far East, Hawaii)
UE : AAFES(Europe) X: Australia M: Other Areas

⚠ Indicates safety critical component.